### TO RAISE SINGLE GERM SUGAR BEETS IN UTAH COUNTY.

United States Government Expert to Superintend Experiments That WIII Save Thousands of Dollars to Farmers If Successful.

ONE THOUSAND POUNDS OF BEETS GROWN FROM SINGLE GERM SEED TO BE SHIPPED WITHIN TEN DAYS FROM THE NATIONAL CAPITAL TO LEHI FOR PLANTING ON THE FA-MOUS SARATOGA FARM.

Special to The Tribunc

EHI, March 21.-C. O. Townsend of Washington, D. C., has been looking over the sugar beet industry of Utah for three days, in company with Representative George Austin, the Utah Sugar company's agricultural superintendent. Mr. Townsend is an official of the Agricultural Department, his particular field being the beet sugar industry.

The department is making exhaustive experiments in the production of sugar beet seed, and it was to find out more about the demand for beet seed and the possibilities of supplying this de mand that brought him West.

It seems that the Government has not known that Utah was the pioneer in the production of sugar beet seed in America, or even that beet seed had ever been produced in this State at all. So when Mr. Austin told the Washington representative that last year the Utah Sugar company had produced more than forty tons of first-class beet seed and that the sugar beet prize at the National Irrigation Congress had been taken by beets grown from beet seed produced in the Bear River Valley the experts supprise can easily be ley, the expert's surprise can easily be When he was shown the big sheds at Garland in which are stored more than 300 tons of mother beets, ready to be set out soon as spring opens, and the methods adopted for growing, threshing and cleaning the seed, all of which had been brought well nigh to perfection by the Utah Su-gar company, he decided that Utah was the most favorable spot in America fo the Government to carry on its experi-ments in the production of sugar beet

UTAH'S ADVANTAGES.

This State, because of its freedom from hallstorms and insect pests and the absence of drought insured by irri-gation, and assisted by the National Government will soon have another well established and most important in-For several years the Agricultural

Department has been carrying on ex-periments, with the idea of producing single germ sugar beet seed. beet seed contains from one to eight germs, and when planted a single seed will often produce as many as six beets. Five of them have to be removed and the labor entailed by reason of the multiple germ seed is estimated at about So it can readily be seen that should the department succeed in a getting a single germ seed it would mean a saying to the farmers of \$899,-000 yearly, for the sugar beet area in the United States last year was about

Mr. Townsend explained the experiments he has been making and is san-guine of ultimate success. He has been guine of utimate success. He has been following several theories, but the one so far that has given the most promise is the selection of a single flower and placing on it pollen from another single flower, which seems to produce seed with a single germ. After the flowers have been pollenized, they have a small paper sack tied over them so that bees, in gathering honey, cannot carry pollen from flowers that produce multiple germs and deposit it on the single germ flower. It appears that the single germ seed

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comes from a single flower, while the multiple germ seed comes from flowers which grow in clusters, so that by selecting seeds from the single flowers lecting seeds from the single flowers and by persistently shutting out or cutting off the flowers which bloom in clusters. Mr. Townsend eventually hopes to produce a single germ seed that will produce its own kind without assistance from a Government doctor. For the purpose of protecting the flowers as above explained, he has had made 100,000 small paper bags and to the uninformed observer a field of protected flowers will look rather odd. tected flowers will look rather odd,

SINGLE GERM BEETS. The fact of most interest to Utahns is that after looking over the field thoris that after looking over the field thoroughly. Mr. Townsend has decided to
ship 1000 pounds of beets which have
been grown from single germ seed to
Lehi, where they will be planted on the
famous Saratoga farm, and the experiment started in Washington will be
continued here. Mr. Austin will receive
the beets in about ten days and have
them planted under his own supervision
on a specially prepared piece of ground,
and as the Saratoga farm lies west of and as the Saratoga farm lies west of Jordan river about five miles from any other sugar beet seed farm, the loca-tion is thought to be ideal.

Besides the mother beets, Mr. Austin will receive several thousand single germ seed that have been gathered by the paper sack system in Washington and these he will plant a single seed at a time on the Saratoga farm. When the beets begin to flower, which will be about July 1st, Mr. Townsend, with two or three assistants, will come from Washington and take charge of the experiments and gather the seed, which is all done by hand and requires much patience and scientific accuracy. The department is also experimenting

with the leaves of a beet. As all ob serving farmers know, there are beets whose leaves lie flat down, leaves that stand up erect, leaves which are short and some that are long, leaves that are

variety will ultimately be selected as the kind from which to produce the fu-fure seed for American farmers. The Agricultural Department expects

o solve the beet seed problem just as It has solved the cotton and corn seed questions to the benefit of the farmers to the extent of millions of dollars.

SOLVED THE DIFFICULTY. Mr. Townsend explained how there was a fine cotton fibre which was short and a long cotton fibre which was coarse; but that there could not be produced a long cotton fibre that possessed a fine texture. The Yankee in-genuity of the Government expert solved the difficulty, after several years of experiments, and now we have any kind of cotton fibre desired.

It will be remembered that a few years ago the base of a corn cob was covered with large kernels, but that they were fewer and smaller as the end was approached. But today the kernels are almost as large on the tip of the ear as at the base and cover the cob-entirely, for all of which we have to thank our Uncle Samuel and his agri-

The Utah Sugar company, under the superintendency of Henry A. Vallez, began the production of sugar beet seed ten years ago and produced one sack of seed. The company has been experimenting every year since and last sea-son raised forty tons of first-class seed, and next season expects to produce more than 100,000 pounds, and eventually to supply all that is used in the intermountain. States. They have solved the difficult problem of how to store the mother beets and have in-vented a seed cleaner that is a marvel in simplicity and effectiveness and for which Mr. Townsend strongly recommended Mr. Austin to take out a pat-

The sugar company now has a force of twenty young men testing the mothers up to the required standard in saccharine, for each beet must be tested separately and if it is too low in sugar it is discarded. In a few days fifty men and boys will be put to work to plant the mother beets in the field and

the job will last one month.

Mr. Townsend will bring his wife to Itah this summer and she will stay with him at the Saratoga farm, where there is excellent boating, bathing, hunting and fishing. From the time that the mother beets begin to flower in July they will require the expert's attention almost day and night for about six weeks.

## UNIQUE PUMP FOR THE DRY REGIONS

New Invention of Special Use in Irrigating Arid Lands Obviating

Crop Losses.

WASHINGTON, March Eastern Press bureau of the World's fair is in receipt of advices that most unique and universally useful in vention will make its first appearance before the public in the Palace of Machinery at St. Louis. It is of special interest to arid sections. The invention is known as the Deis pump. It is compact-about four feet high by probably three feet in circumferencebut its size is apparently no indica-

tion of its greatness from the viewpoint of general utility. It will be arranged so that it may readily be wound in two or three min-utes to run six or eight hours. This pump may be attached to the windmill devices now so generally used, thus ob-viating the necessity of waiting for wind in order to secure force for lifting water. It is designed also for special use in dry regions for irrigating lands, thus obviating losses of crops and cat-

tle by drought. One form will be electrical in character, so equipped that it may be attached to an electric current. It will have a capacity of pumping twenty gallons per minute, and, by connecting by wire a series of pumps between Provo and Salt Lake or Ogden, for instance, all the pumping stations along the route may be operated through a motor stationed at one end of the line, thus making a saving, it is claimed, of upward of 50 per cent in the pres-

ent lifting power now employed.

A third form will be a hand-pump, operated by the swinging of a pendulum so finely adjusted, or balanced, that it may be readily worked by a small child. A most attractive feature of this invention is claimed to be the easy purchase price at which the pumps may be obtained.

### HEIRS TO FIGHT FOR

THORNE MILLIONS

NEW YORK, March 22.-Notice of contest has been filed over the will of George Winthrop Thorne, a New York millionaire who died in Paris February 1st. He bequeathed the bulk of his estate to Helen Leigh of London and Marie Valadier of Paris. The former, a sister of Thomas deceased wife, is the wife of the Hon. Dudley Leigh, a close friend of King Edward, and son of Lord

The contest was brought by Helen M Thorne of this city. She is a second cousin of the dead millionaire, and cousin of the deal limit was obtained charges that the will was obtained through undue influence practiced by Marie Valadier and Helen Leigh, or some one acting for them.



LOOK FOR OUR NAME

In the new directory of the Utah Inde pendent Telephone Co.—No. 140. GODBE-PITTS DRUG CO.

#### KAYSVILLE EXCURSION.

March 25th Round trip only 60 cents, via Oregon Short Line. Special leaves Salt Lake 7 p. m., returning 11:30 p. m.

FLOOD AIDS FIRE IN A WISCONSIN TOWN

BELOIT, Wis, March 22 - During a flood that has inundated a third of the city, John Thompson & Sons' gas encity, John Thompson & Sons' gas engine fact, there are leaves of more than twenty varieties, all of which Mr.

Townsend has had photographed.

The beets which produce all of these varieties are being tested and the best variety will ultimately be selected as a selecte feet deep on State street and store hoors are covered. Bock river, which runs through the city, has almost reached the danger point. The damage caused by the flood in this city will reach \$250,-

#### LIVED SIXTY DAYS ON MILK AND MEAL WATER

CARLISLE, Pa., March 22-V. R. Wilcox of West Fairview, who has abstained from all solid food since January 17th, in the hope of curing himself of stomach trouble, on St. Patrick's day broke what is probably the longest fast on record. Mr. Wilcox's first change of diet was from bolled water to nourishing broth, which will be his diet until his stomach is strong enough to retain solid food.

Until two weeks ago Wilcox attended o work in his poultry house, but since a veek before his fast ended he has been confined to his bed on account of ex-treme weakhess. He said that he was afraid it will be some time before he is

trong enough to walk.
Wilcox started on milk and lived for one month on farinaceous water from bolled oatmeal, and during the remain-der of the fast he subsisted on pump water. Although greatly weakened and emaclated by his long fast, he is hope-ful that he will ultimately recover from stomach complaint.

PORTLAND BIG FAIR APPROPRIATION BILL

WASHINGTON, March 22.-The House Committee on Industrial Art

and Exhibitions today adopted a complete substitute for the Senate bill making an appropriation for the Lewis and Clark exposition. The bill as re-ported to the House reduces the appro-priation for \$475,000. Of this amount \$250,000 is for buildings, \$200,000 for the Government exhibit and \$25,000 for an Alaskan exhibit.

McCoy's livery stable for carriages and light livery. Telephone 81.

CABINET CONSIDERS

DEPARTMENT MATTERS WASHINGTON, March 22 .- At the abinet meeting today departmental natters were considered. Secretary Hitchcock reported the indictment of several persons for land frauds in Oreon. Attorney-General Knox announced it the conclusion of the meeting that Horace Speed, United States attorney for the Eighth circuit in Oklahoma, would be reappointed. Charges were preferred against Speed, but they were

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when rubber is high.

There are many others—imitations made of Recisimed Rubber, that is. Rubber that has been used before in old boots and shoes, has been chemically treated and used over again; it is lifeless, fragile, dead. It costs il cents a pound. They won't wear, nor have they the spring.

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PREE A sample box - just enough to convince you of the great merit of Dr. Charles Flesh Food—will be sent free for lo cents, which pays for cost of mailing. We will also send you our illustrated book. "Art of Massage," which contains all the proper movements for massaging the face, neck and arms and full directions for developing the bust. Address DR. CHARLES CO., 19 PARK PLACE, NEW YORK.

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ANNUAL STATEMENT ANNUAL STATEMENT ANNUAL STATEMENT For the year ending December 31, 1908, For the year ending December 31, 1903, of the condition of the of the condition of the

Delaware Insurance Comp'y Allemannia Fire Insurance Palatine Insurance Company Limited.

Tatnall Paulding lenry Lylburn, aptial 1,000,000,00 aptial 1,000,000,00 aptial 702,875.00 sets 19 1,775,209.50 abilial in is. 1,616,279.30 come and of its capital stock lass of the amount of its capital stock paid up is 200,000,00 abilial in is. 1,616,279.30 come call come call 2 stock lass of the amount of its assets is 705,563.83 abilial in is. 1,616,279.30 come call come of Utah, office of the Secretary of State of Utah, Office of the Secretary of State of Utah, office of the Secretary

State of Utah, office of the Secretary of State.—ss.

1, James T. Hammond, Secretary of State of the State of Utah, do hereby Certify that the above named insurance company has filed in my office a detailed statement of its condition, from which the foregoing statement has been prepared, and that the said company has filed in my office a detailed statement of its condition, from which the foregoing statement has been prepared, and that the said company has filed in my office a detailed statement of its condition, from which the foregoing statement has been prepared, and that the said company has filed in my office a detailed statement of its condition, from which the foregoing statement has been prepared, and that the said company has filed in my office a detailed statement of its condition, from which the foregoing statement of its condition, from which the said company has filed in my office a detailed company has fil

#### TIME TABLE In Effect Nov. 22, 1903.

ARRIVE. From Ogden, Portland, Butte, San Francisco, Chi-osgo, St. Louis, Omeha, and Denver From Ogden and intermedi-ate points. 8:30 a.m. From Ogden, Cache Valley, and intermediate points. 11:55 a.m.

Fom Ogden, Chicago, St. Louis, Kanasa City, Oma-ha, Derivor and San Fran-elsco From Ogden, Cache Valley, St. Aphons, Portland and San Francisco 4:05 p.m.

6:55 p.m. DEPART. For Ogdan, Omaha, Chicago, Denver, Kansas City and Bt. Locis 6:00 a.m.

For Ogden Portland, St. Anthony, San Francisco and Intermediate points

For Ogden, Omaha, Chicago, Denver, Kanasa City, St. Louis and San Francisco. 1:10 p.m. or Ogden, Cnohe Valley, Denyer, Karsas City, Oma-ha, St. Louis and Chicago.

T. M. SCHUMACHER, Traffic D. E. BURLEY, G. P. & T. A. D. S. SPENCER, A. G. P. & T. City Ticket office, 201 Main stre Velaphone 220.

### TIME TABLE

DEPART.

For Gerfield Beach, Toosie, Studkton, Mammoth, Eureka, and Silver City. 8:00 a.m. For Proyo, American Fork, Leni, Juan, Milford, Prisco, Callenies and intermediate

°6:05 p.m. ABRIVE.

ABRUE.

Brom Provo, American Pork.
Lehf Juab Milford, Frisco.
Caltestes and intermediate
points "9:35 a.m.

From Provo, Lehi, Fairfield,
Mercur and Sampele Valley
R.g. points "5:35 p.m.

Brom Silver Cites, Mammoth
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